

Title (en)
Dynamic bit allocation apparatus and method for audio coding

Title (de)
Vorrichtung und Verfahren zur dynamischen Bitverteilung für Audiokodierung

Title (fr)
Dispositif et méthode d'allocation dynamique de bits pour le codage audio

Publication
EP 0966108 B1 20050330 (EN)

Application
EP 99110742 A 19990604

Priority
JP 16826598 A 19980616

Abstract (en)
[origin: EP0966108A2] Provided is a dynamic bit allocation apparatus and method for audio coding which can be used widely for almost all digital audio compression systems and besides implemented simply with low cost. The bit allocation apparatus and method perform a very efficient bit allocation process, paying attention to a psychoacoustics behavior of the human audio characteristics with a simplified simultaneous masking model. In this process, peak energies of units in frequency divisional bands are computed, and a masking effect that is a minimum audio limit with the use of a simplified simultaneous masking effect model is computed and set as an absolute threshold for each unit. Then, a signal-to-mask ratio of each unit is computed, and then, based on this, an efficient dynamic bit allocation is performed. <IMAGE>

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H04B 1/66; **G10L 19/00**; **G10L 19/02**

IPC 8 full level
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EP 0966108 A2 19991222; **EP 0966108 A3 20020619**; **EP 0966108 B1 20050330**; CN 1146203 C 20040414; CN 1239368 A 19991222; DE 69924431 D1 20050504; DE 69924431 T2 20060209; JP 2000004163 A 20000107; JP 3515903 B2 20040405; US 6308150 B1 20011023

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